



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,622	08/31/2001	Takeshi Saito	213505US2RD	8762

22850 7590 02/10/2005

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

WIN, AUNG T

ART UNIT	PAPER NUMBER
----------	--------------

2645

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/942,622

Applicant(s)

SAITO, TAKESHI

Examiner

Aung T Win

Art Unit

2645

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over
Dusse et al. in view of Coppinger et al.

1. Regarding Claim 1, Dusse et al. discloses a portable terminal (mobile device) [Column 5, Line 40-50] in an information distribution system (web based provisioning distribution system) using a local server (Proxy Server device incorporated with provision server) accessible through a local radio network (airnet with common wireless access protocols such as WAP) [Column 4, Line 27-38] and portable terminal comprising: a local radio network interface (Wireless protocol interface) [Column 6, Line 4-10] configured to access the local server (Proxy Server) through the local radio network; a local server access request unit (processor) configured to send an access request for a local information provided by the local server, to the local server through the local radio network, along with a terminal ID (supply device ID) for identifying the portable terminal [Column 6, Line 7-23].

Dusse et al. discloses the provisioning server to process the provisioning request for the verification of the user information and the device information for the notification and delivery of software mobiles and registration information to the mobile devices and any service providing server devices [Column 3, Line 25-50]. Dusse et al. further teaches provisioning server can be incorporated in proxy server device (Local Server) or another device [Column 6, Line 30-33] to provision the mobile device before providing the service to the user. Dusse et al. teaches that provisioning content required to process the request which may be resident on the provisioning server receiving request [Column 6, Line 45-49] in which provisioning server retrieved the URI of service server providing the service for the registration of mobile device [Column 6, Line 59-65].

Dusse et al. further discloses a subscription server (service server) accessible through a public network (landnet) [Column 7, Line 48-50] via a public network interface (inherent to establish communication with provisioning server to register the mobile device and to provide the service. Dusse et al. fail to teach the membership subscription request unit

Coppinger et al. discloses the registration method of registration of programmable wireless device [Column 7, Paragraph 0056, 0059 and 0060] using the subscription server (a server having an account) accessible through the public network (conventional wireless network such as cellular digital packet data network (CDPD) [Table 2] via a public network interface (inherent to establish communication with the subscription server). Coppinger et al. further discloses the programmable wireless device receiving the software from the subscription server such as executable instructions (server access membership subscription guidance) to enable the wireless device to operate on

Art Unit: 2645

a particular wireless network for execution to support communication between wireless device and the service server [Paragraph 0060]. Coppinger et al. further teaches the registration process of the programmable wireless device including the steps of sending a registration request to a server (subscription server) and receiving the software from the subscription server such as executable instructions (server access membership subscription guidance) to enable the wireless device to operate on a particular wireless network for execution to support communication between wireless device and the service server [Paragraph 0060].

Although Coppinger et al. fail to disclose the membership subscription request unit of the mobile device, one of ordinary skill in the art would have recognized that membership subscription request unit (processor) would inherently implemented in the wireless device to be able to send a request for registration to a corresponding subscription server [Paragraph 0060] through the public network for service registration.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the portable terminal in an information distribution system using a local server (proxy server) incorporated with provisioning server as taught by Dusse et al. to provision the access requested by the portable terminal and a subscription server for service registration as taught by Coppinger et al. when the access request is rejected. One of the ordinary skilled in the art would have been motivated to do this so that the user of mobile device can be initially provision features and services without having to go to a retail establishment [Column 2, Line 40-43].

Art Unit: 2645

2. Regarding Claim 2, Dusse et al. as modified discloses the limitations of Claim 1. Dusse et al. further discloses that the request for the new service registration for the user includes the provisioning information comprising URI (server ID) of service server providing the service and registration information relating to the user of mobile device. [Column 6, Line 37-65].

3. Regarding Claim 3, Coppinger et. al. as modified further discloses the account registration of a wireless device in which, the server (subscription sever) responses to the user by providing system assigned password [Paragraph 0059]. Coppinger et. al. also teaches the providing the user of the application program such as Appl. Wc to be used for the new service request which is available for use beginning at a specified time or event; and to be specified to ceased being available for use at a specified time [Paragraph 0079]. Dusse et al. And Coppinger et. al. fail to disclose the storing of password in password memory unit. However, the Memory unit implemented in the wireless device and provided password to be use for new service registration is well known to the one of ordinary skilled in the art. Moreover, storing the password in the memory unit is the matter of process in registration programmed and applied to the wireless device in the absence of criticality.

4. Regarding Claim 4, Dusse et al. as modified further discloses the client module coupled to WCP interface of mobile device that performs many of the processing tasks including: establishment of a communication session, requesting and receiving of data [Column 6, Line 14-24]. Dusse et al. And Coppinger et. al. fail to disclose the information processing unit (processor) configured to process the local information

received from the local server in response to the access request. However, programmable processors are well known in the skilled in the art.

Therefore it would have been obvious to modify the mobile device with the client module as taught by Dusse et al. configured to process the local information received from the local server (proxy server incorporated with provisioning server) to process the local information received from the local server in response to the access request.

Claims 5-7,9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dusse et al.

5. Regarding Claim 5, Dusse et al. discloses local server (proxy server device incorporated with provisioning server) in an information distribution system (web based provisioning distribution system) using a portable terminal (mobile device) [Column 5, Line 40-50] accessible through a local radio network (airnet with common wireless access protocols such as WAP) [Column 4, Line 27-28] via Local radio network interface (inherent to establish communication with portable terminal through the local radio network). Dusse et al. further discloses a subscription server (service server) accessible through a public network (landnet) [Column 7, Line 48-50] via a public network interface (inherent to establish communication with the subscription server through the public network). Dusse et al. further discloses the provisioning server which can be incorporated in proxy server device or another device [Column 6, Line 30-33] to process the provisioning request for the verification of the user information and the

Art Unit: 2645

device information for the notification and delivery of software mobiles and registration information to the mobile devices and any service providing server devices [Column 3, Line 25-50].

Dusse et al. discloses a local information storage (storage database) configured to store a local information (information relating to the mobile device to be verified prior to processing the service request [Column 7, Line 10-18]. Dusse et al. also discloses a local information access request receiving unit [Message Receive Manager] configured to receive an access request for the local information stored in the local information storage [Column 7, Line 15-18], along with a terminal ID (device identification number is verified) [Column 7, Line 10-11] for identifying the portable terminal, from the portable terminal through the local radio network;

Dusse et al. discloses a membership database (the content relating to the features and services listed in database 542) [Column 7, Line 24-28] configured to register in advance terminal IDs of those portable terminals which have server access membership (configured to register mobile terminal with limited access server devices); a membership checking unit (inherent to provision the requesting portable terminals) configured to check whether the terminal ID received along with the access request is registered in the membership database or not (whether there is some conflict with requested features and services provisioned by Registration Module, Device Feature Module, and Services Module comprised in Provisioning Kernel of provisioning sever [Column 6, Line 37-66] .

Art Unit: 2645

Dusse et al. further discloses a membership subscription guidance sending unit (message send manager) configured to send a server access membership subscription guidance for urging the portable terminal to carry out a membership subscription procedure (notification message which may be comprised of software modules and information required to communicate with limited access commercial server devices) [Column 7, Line 29-40], to the portable terminal through the local radio network, when the terminal ID received along with the access request is not registered in the membership database (if there is some conflict with requested features and services);

Dusse et al. does not disclose a membership database updating unit although Dusse et al. discloses the storage database configured to store information relating to the mobile device to be verified prior to processing the service request [Column 7, Line 10-18]. However, Dusse et al. discloses the exchange of information between the subscription server (service server) and provisioning server [Column 7, Line 41-62].

One skilled in the art would realize that database are needed to be periodically updated in order to verify the mobile device prior to processing the service request as disclosed by Dusse et al. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention was made to receive a new membership information from the subscription server (service server) through the public network and update the membership database according to the new membership information in order to verify the mobile device for processing the service request. One of the ordinary skilled in the art would have been motivated to do this so that the user of mobile device can be both

initially provisioned and updated the features and services without having to go to a retail establishment.

6. Regarding Claim 6, Dusse et al. further discloses that the request for the new service registration for the user includes the provisioning information comprising address of subscription server (URI, server ID of service server providing the service and registration information relating to the user of mobile device) [Column 6, Line 37-65] [Figure 5].

7. Regarding Claim 7, Dusse et al. does not discloses a local server ID sent along with the membership subscription guidance although Dusse et al. discloses that the request for the new service registration for the user includes the provisioning information comprising URI (server ID) of service server providing the service and registration information relating to the user of mobile device. [Column 6, Line 37-65]. Moreover, Dusse et al. clearly discloses the exchange of provisioning content between the mobile device and provisioning server [Column 7, Line 4-6]. Therefore, it is inherent for the mobile device to realize the local server ID (ID of provisioning server) in order to exchange information between provisioning device and mobile device as disclosed by Dusse et al.

8. Regarding Claim 9, Dusse et al. discloses the limitations in the Claim 5 and further discloses that additional notification and information required to access the provisioned services (eg. Passwords) are sent to the mobile device [Column 7, Line 1-2]. However, the Memory unit implemented in the wireless device and password

providing to be use for new service registration is well known to the one of ordinary skilled in the art. Moreover, storing the password in the memory unit is the matter of process in registration programmed and applied to the wireless device in the absence of criticality.

9. Regarding Claim 10, Dusse et al. discloses the limitations of Claim 9 as described above. Dusse et al. does not disclose a membership database updating unit although Dusse et al. discloses the storage database configured to store information relating to the mobile device to be verified prior to processing the service request [Column 7, Line 10-18]. One skilled in the art would realize that database are needed to be periodically updated in order to verify the mobile device prior to processing the service request as disclosed by Dusse et al. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention was made to updates the membership database within the limited valid period.

10. Regarding Claim 11, Dusse et al. discloses all the limitations of Claim 5, and further discloses the exchange of information between the subscription server (service server) and provisioning server [Column 7, Line 41-62]. Dusse et al. does not explicitly discloses a membership subscription request relaying unit. However Dusse et al. discloses the Messenger send Manager and Message receive Mangager to forward the user registration request to service server via a message and manager and message receiver to register the user for the requested services. Therefore, membership subscription request relaying unit would have been inherently implemented in order to receive a server access membership subscription request from the portable terminal

Art Unit: 2645

through the local radio network, and forward the server access membership subscription request to the subscription server through the public network.

11. Regarding Claim 12, Dusse et al. discloses a subscription server in an information distribution system (web based provisioning distribution system) using a portable terminal (mobile device) accessible through a public network (landnet) [Column 7, Line 48-50] via a public network interface (inherent to establish communication with the subscription server through the public network) configured to carry out communications with portable terminal through the public network; a local server (Proxy Server device incorporated with provisioning server) providing a local information accessible through a local radio network (airnet with common wireless access protocols such as WAP) [Column 4, Line 27-28]; a membership subscription request receiving unit (Message Receive Manager) configured to receive a server access membership subscription request from the portable terminal through provisioning server, a membership subscription procedure processing unit (Registration Kernel) [Figure 6] configured to carry out a membership subscription procedure in response to the server access membership subscription procedure in response to the server access membership subscription request, and a notification unit (message send manager) configured to notify information on the portable terminal to the local server (provisioning server) through the public network when the server access membership subscription request is accepted by the membership subscription procedure [Column 7, Line 41-62].

12. Regarding Claim 13, Dusse et al. fails to disclose the information distribution system uses a plurality of local servers and a local server ID sent along with the

Art Unit: 2645

membership subscription guidance although Dusse et al. discloses that the request for the new service registration for the user includes the provisioning information comprising URI (server ID) of service server providing the service and registration information relating to the user of mobile device. [Column 6, Line 37-65]. One skilled in the art realizes that there would have been more than one server in the information distribution system. Moreover, Dusse et al. clearly discloses the exchange of provisioning content between the mobile device and provisioning server [Column 7, Line 4-6]. Therefore, it is inherent for the mobile device to realize the local server ID (ID of provisioning server) in order to exchange information between provisioning device and mobile device as taught by Dusse et al.

13. Regarding Claim 14, Dusse et al. does not discloses the information distribution system uses a plurality of local servers although a notification unit (message send manager) configured to notify information on the portable terminal to the local server (provisioning server) through the public network when the server access membership subscription request is accepted by the membership subscription procedure [Column 7, Line 41-62]. One skilled in the art realizes that there would have been more than one server in the information distribution system. Moreover, the concept and process of the notification unit notifies the information the portable terminal to the plurality of local servers is well known and expected in the art.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dusse et al. as applied to Claim 5, further in view of Wang.

14. Regarding Claim 8, Dusse et al. discloses all the limitations in Claim 5 and further discloses that the service request is provisioned and once the information in the provisioning request is verified and the provisioning content is forwarded to service server [Column 5, Line 15-30] to provide the service request. Dusse et al. fails to disclose a local information sending unit configured to send the local information to the portable terminal.

Wang discloses a portable terminal (location-aware wireless mobile device such as WAP device) [Paragraph 0053, 0058 & 0124] [Figure 1] [Figure 2] [Figure 13] in an information distribution system using a local server (one of network devices in information and service center such as WML Server) [Paragraph 0059 & 0125] accessible through a local radio network (one of transport networks such as WAP wireless transport network). Wang further discloses the portable terminal configured to access the local server through the local radio network for a local information (emergency or non-emergency alert information) [Paragraph 0107] provided by the local server. One skilled in the art would realize that local information sending unit would have been inherently implemented in order to provide the local information to the portable terminal through a local radio network as taught by Wang described above. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Local Server as taught by Dusse et al. with the Local Server as taught by Wang to implement the local information sending unit configured to

Art Unit: 2645

send the local information to the portable terminal through the local radio network in response to the access request when the terminal ID received along with the access request is registered in the membership database. One of the ordinary skilled in the art would have been motivated to do this to provide the user of portable terminal with the location dependent information such as the server weather event.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dusse et al. as applied to Claim 12 above, further in view of Coppinger et al.

15. Regarding Claim 15, Dusse et al. discloses all the limitations in the Claim 12 and further discloses that additional notification and information required to access the provisioned services (eg. Passwords) are sent to the mobile device [Column 7, Line 1-2]. Dusse et al. does not teaches that password is valid for limited period.

Coppinger et al. discloses the registration process of the programmable wireless device including the steps of sending a registration request to a server (subscription server) and receiving the software from the subscription server such as executable instructions (server access membership subscription guidance) to enable the wireless device to operate on a particular wireless network for execution to support communication between wireless device and the service server [Paragraph 0060].

Coppinger et. al. further discloses the account registration of a wireless device in which, the server (subscription sever) responses to the user by providing system assigned password [Paragraph 0059]. Coppinger et. al. also teaches the providing the user of

Art Unit: 2645

the application program such as Appl. Wc to be used for the new service request which is available for use beginning at a specified time or event; and to be specified to ceased being available for use at a specified time [Paragraph 0079].

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify subscription server taught by Dusse et al. with the subscription server taught by Coppinger et al. for the membership subscription procedure processing unit to provide password with a limited valid period to the portable terminal in response to the server access membership subscription request. One of the ordinary skilled in the art would have been motivated to do this to provide the secure registration.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Roundtree Patent No.: U.S. 6,640,098 B1

Herz et al. Patent No.: U.S. 6,571,279 B1

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aung T Win whose telephone number is (703) 605-4306. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (703) 305-4895. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aung T. Win
Group Art Unit 2645
December 9, 2004


FAN TSANG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600